

User Manual



Installation and Programming Manual

Door Access Control with the VoIP interface

IP 39-4X

Release 2.06



IP Door Phones

IP 39-4X

Installation and Programming Manual

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NOTICE

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1 Introduction

The Nista Device's IP Door Phones are standalone SIP phones, which maximize functionality of the VoIP network. Integrated into SIP Proxy as extension IP Door Phone allows voice and video communication and doors control within an enterprise multiple branches, which is operated under single IP network. An integrated IP video camera allows users to manage a high quality SIP video call.

1.1 List of Available Models

Model	Description
IP39-40PC	IP Door Phone, Piezo Keypad, Integrated Internal Video Camera
IP39-40P	IP Door Phone, Piezo Keypad
IP39-41PC	IP Door Phone, Piezo Single Button, Integrated Internal Video Camera
IP39-41P	IP Door Phone, Piezo Single Button
IP39-40AC	IP Door Phone, Touch Keypad, Integrated Internal Video Camera
IP39-40A	IP Door Phone, Touch Keypad
IP39-41AC	IP Door Phone, Touch Single Button, Integrated Internal Video Camera
IP39-41A	IP Door Phone, Touch Single Button

2 Product Overview

Nista Devices IP Door phones IP394X family are smart, surface mounted access control devices connected to the Nista Devices IP platform allowing door entry control. They are designed for both indoor and outdoor use and are constructed in an aluminum case with piezo and touch keypads.

The Nista Devices IP Keypad and Single Button versions support the following features:

Feature	Keypad	Single Button
Multiple door access codes	✓	✗
Door opening from any extension	✓	✓
Programmable day and night destinations	✓	✓
Integration with local LAN and VoIP networks	✓	✓
Network Configuration: DHCP or Static	✓	✓
Authorized registration with existing VoIP switching system (SIP Proxy)	✓	✓
Automatic busy & disconnect detection	✓	✓
99 Speed Dialing Memories	✓	✗
Up to 99 System accounts	✓	✗
Destination No answer call forwarding	✓	✓
Day and Night weekly time profiles	✓	✓
Separate Day & Night destinations	✓	✓
Informative Display	✓	✓
Speed dial memory scrolling	✓	✗
External buttons	✓	✓
Two separate doors control	✓	✓
POE-Power over Ethernet	✓	✓
High quality speakerphone with WEB volume control	✓	✓
High quality Video over IP	✓	✓
Web Management interface	✓	✓
Web GUI password protection	✓	✓
Software upgrade capabilities	✓	✓
Integral Card reader (* Optional)	✓	✓
Door Status Detectors (* Optional)	✓	✓
Backlit keypad with stylish design (* Indoor Touch keypad)	✓	✓
Weather resistant and anti-vandal PIEZO keypad	✓	✓
Case Opening Alarm	✓	✓

3 IP Door Phone package content

- IP Door phone unit
- Metal rear cover
- Rear rubber mat
- Set of connectors
- Hex key wrench for security screw

Note:

1. If POE equipment is not available it is possible to use External Power Supply (not supplied).


External Power Supply shall be:

- Input: 100 – 240 V AC
 - Output: 5VDC; 2A
2. 5VDC Power Supply shall be connected to IP Door Phone in accordance with the required polarity
 3. The External Power Supply does not included in standard IP394X package

4 IP Door Phone Front Panel



Figure 4-1 The IP Door Phone Unit Front Panel

- ▲▼ – scroll a speed dial directory.
- **P/X** – enter the programing mode or use as a “Backspace”
-  – dial predefined day/night extensions and hang up a call.

5 IP Door Phone main functionality.

- The IP Door Phone unit can be integrated with IP PBX (Server / SIP-Proxy) as a SIP extension. IP Door Phone can be connected to IP PBX directly or via IP router, HUB or Switch.
- The unit dials to predefined 'Day' and 'Night' extensions via IP PBX.
- The unit dials to local extensions or external destinations.
- The unit dials pre-programmed destinations using Speed Dial directory.
- The unit opens doors from local extension or remote conversation party.
- The unit opens doors using External Switch buttons.
- The unit management is handled by Web Management interface.

Figure 5-1 the unit schematic setup.

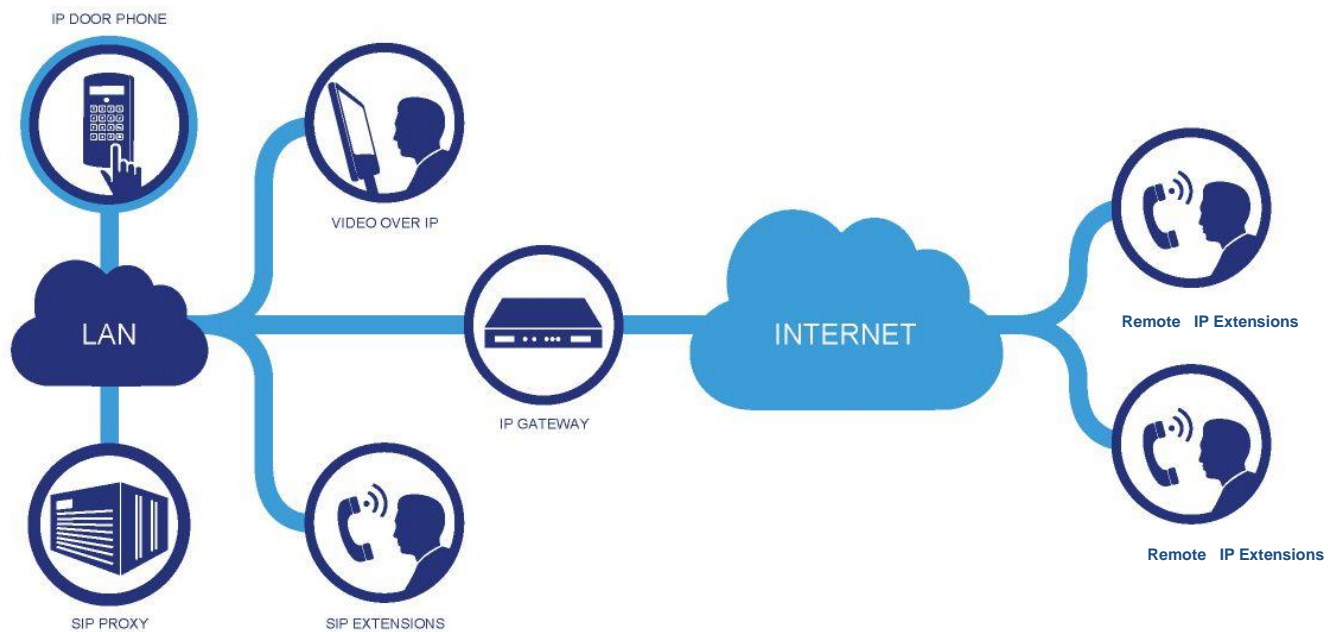


Figure 5-1 The IP Door Unit schematic setup

6 Installation

6.1 Mounting

The Door phone shall be mounted on the wall using rear metal cover and rubber mat provided with the unit.

1. Unscrew the secret screw on the bottom part of the unit.
2. Measure and mark location of the holes on the wall, where they are to be drilled.
3. Drill the holes and insert the wall dowels into the holes.
4. Place the rubber mat on the wall and then the rear metal cover using provided wall screws. (See Figure 6-1)
5. Make all required connections.
6. Put Door Phone unit on the base latch mechanism, close the case and lock with provided screw.

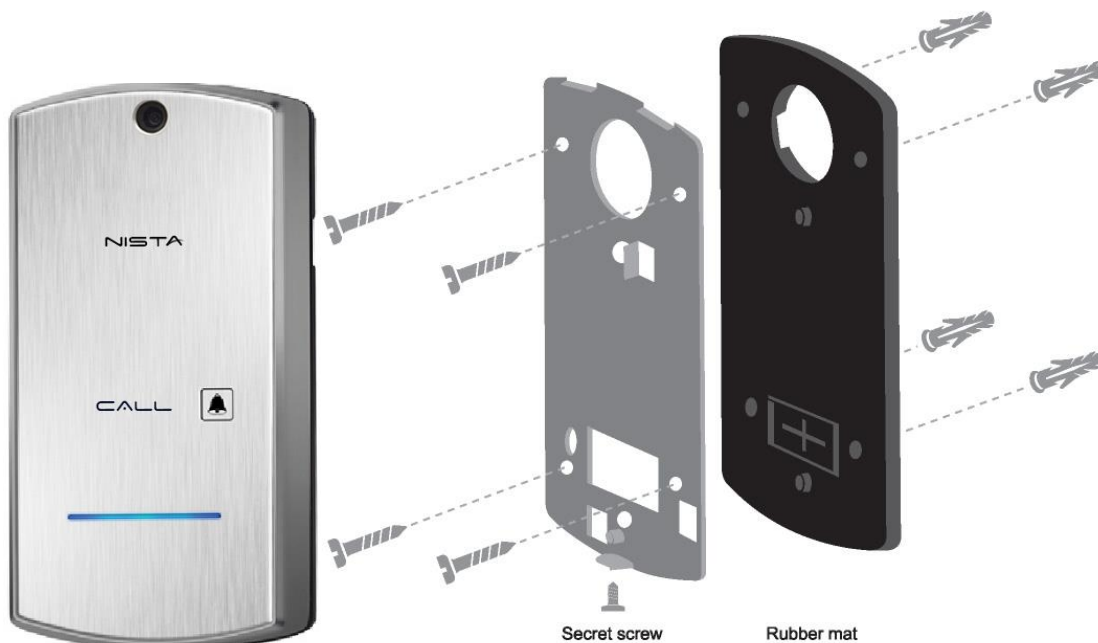


Figure 6-1 Door Phone wall installation

6.2 Connections



For the safety reason and to avoid electrical damage to the unit any Power source like an external power supply or POE shall be disconnected during installation process.

The External Power Supply does not included in standard IP394X package

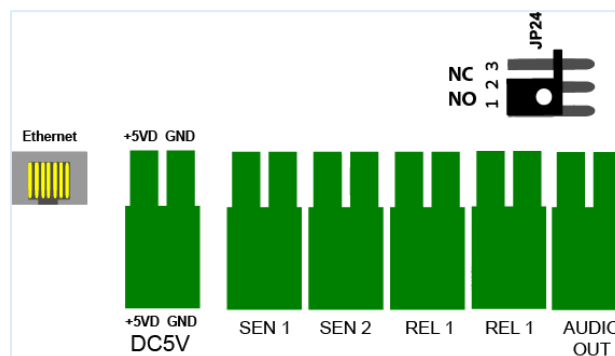
1. Connect and screw door lock(s), push button(s) or sensor(s) wires to the provided two-wire terminal connectors.
7. Insert wired terminal connectors into the matting sockets on PCB (Figure 6-2).
8. Connect POE/LAN cable to RJ-45 socket.
9. Connect door lock to '**REL 1**' (**Relay 1**) and/or '**REL 2**' (**Relay 2**).
10. If an external switch button is used (See also Chapter 7.6: Web GUI Door Functions -> Sensor), connect the external switch button wires to '**SEN 1**' (**Sensor 1**) and/or '**SEN 2**' (**Sensor 2**)

Attention: NO/NC jumper position.

Closed Central Pin (2) + 'NO' - (1) pin means the 'Normally open' relays status in powered mode.

Closed Central Pin (2) + 'NC' - (3) pin means the 'Normally Close' relays status in powered mode

Relay 2 works in Normally Open mode only



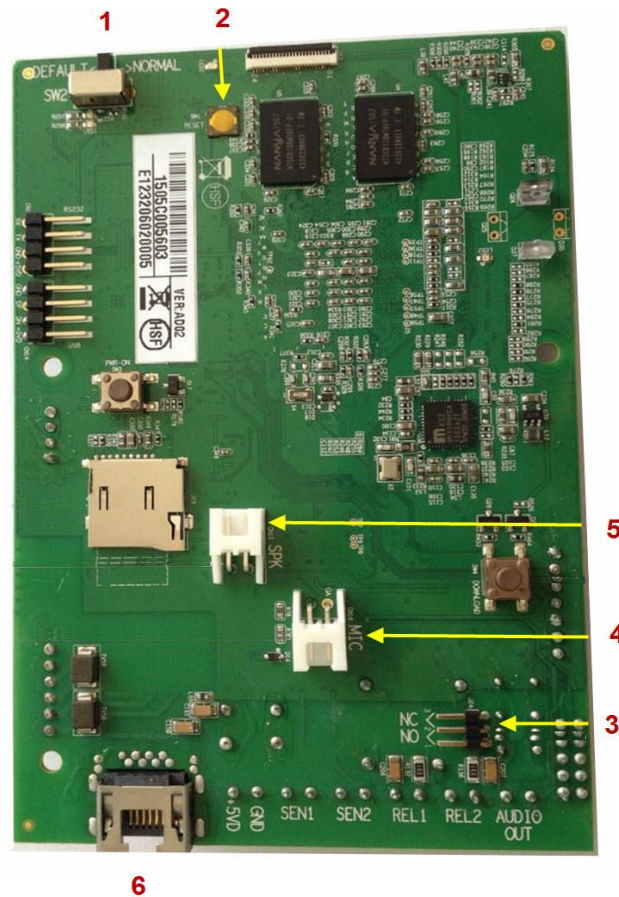


Figure 6-2 The IP Door Phone PCB module

Attention:

The internal relay's maximum supported current is 2A

Important: To set device in operational mode, switch 1 on PCB shall be switched to position "Normal".

PCB elements	Description
1 (SW2)	Factory Default Settings switch: 'Normal' – Door Phone normal working position 'Default' – Set to default procedure mode
2	Hardware Reset (Cold Reset Switch)
3 (NO/NC Jumper)	Relay 1 and Relay 2 Normally Open and Normally Close status jumper. Closed Central Pin (2) + 'NO' - (1) pin means the 'Normally open' mode. Closed Central Pin (2) + 'NC' - (3) pin means the 'Normally Close' mode Note: Relay 2 works in Normally Open (NO) mode only
4	Microphone Connector
5	Speaker Connector
6- Ethernet	POE/LAN connection

PCB elements	Description
5VD (5V DC)	External power supply 5VDC 2A input (if no POE applied). Draw attention on connection polarity: +5V and GND marked on PCB (Figure 6-2) The External Power Supply does not included in standard IP394X package
SEN 1/2 (Sensor 1/2*)	Door status detector. Also can be used as external Switch button connection (Chapter 8.3). Note: The short circuit closer type External Switch button can be used for manual door opening
REL 1/2 (Relay 1/2)	Support 30VDC 2A Internal relays Normally Open and Normally Close status depends on JP1 jumper position.
Audio Out*	Reserved for future release

*feature support depends on firmware version

Figure 6-3 shows the IP Door Phone connections with External Switch button, which is connected to SEN 1 ('Sensor 1') socket.

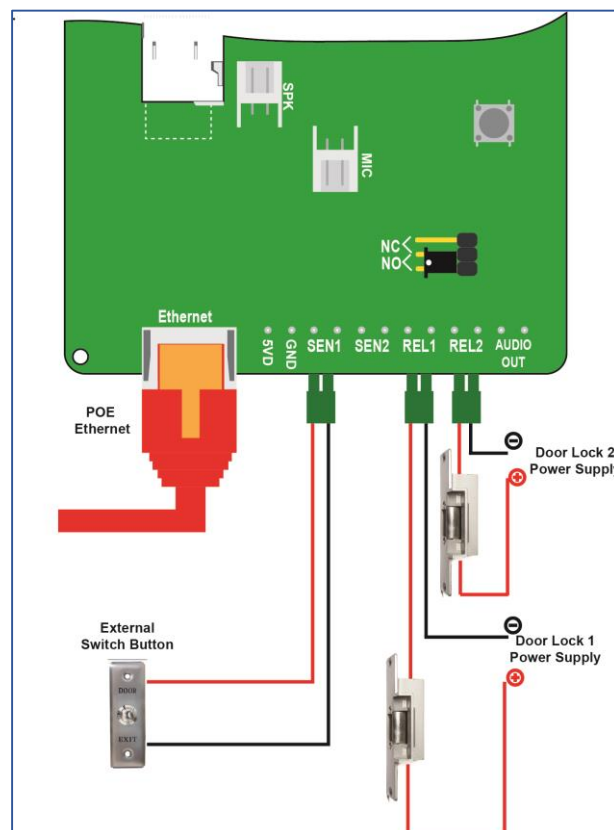


Figure 6-3 IP394X Connections diagram with External switch button

Note:

The door electrical Lock requires the separate own powering

6.3 Reset device to Factory Default Configuration

IP Door phone can be reset to its Factory default configuration:

1. Via WEB-Management interface (See Chapter 0)
2. By using the hardware 'Factory Default Settings' switch (See Figure 6-2)

To set IP Door Phone to Factory Default Setting by using hardware 'Factory Default Settings' switch:

- Power off the device.
- Put the switch to "DEFAULT" position.
- Power On will restore device the factory default.
 - LED Display can show the message " Destination not set " if Day or Night destinations not specified and case is open
 - LED Display Shows 'Set to default' message if a case is closed



- Power off the device.
- Put the switch back to "NORMAL" position
- Power on the device



Figure 6-4 Factory Default Settings switch SW2

7 Programming

7.1 Access to Web Management interface

The programming application can be launched from a web browser.

To run the application type in address bar the IP Door phone IP address.

The Web Management Application Login screen appears:

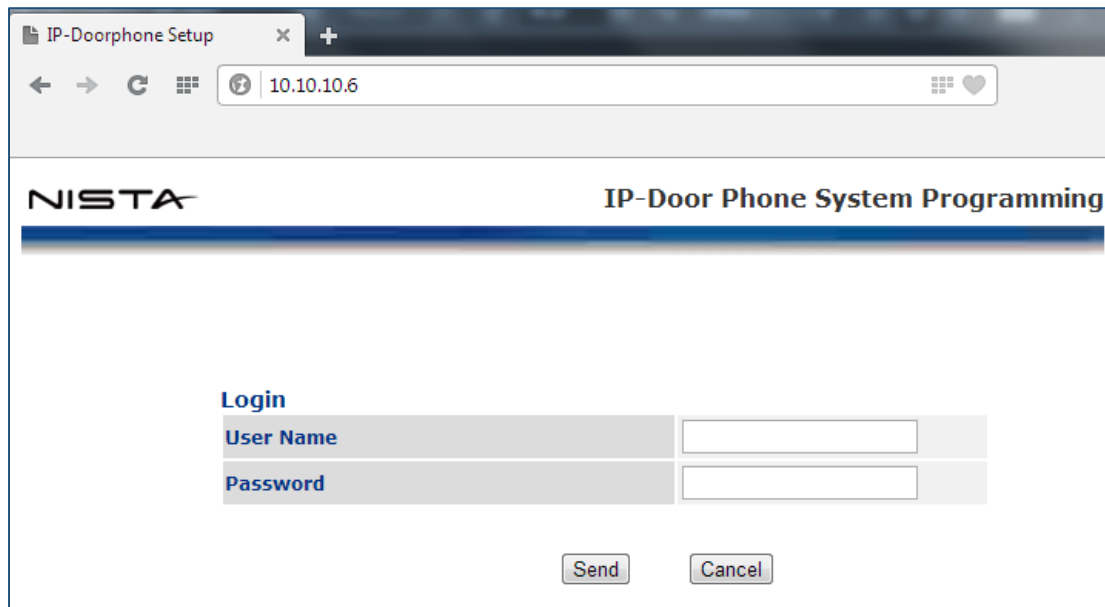


Figure 7-1 The WEB Programming Interface Login screen

IP 394X provides different management levels for WEB-Management: Administrator and User

- 'Administrator' level has access to all IP394X configuration parameters
- 'User' level has limited access to IP394X configuration parameters.

Fill Administrator or User login name and Password fields. (See Also Chapter 7.8.7)

Note:

1. The default IP Door Phone IP address is **10.10.10.6** and it is configured as 'Static' IP Address.
2. The default web-programming Administrator credentials are:
 - User name: '**admin**' – For Administrator management level and '**user**' – for User management level
 - Default Password: **1234** for both management levels
3. It is strongly recommended to change the default administrator password to a stronger one. Allowed Password characters: Up to 19 Digits: 0-9, Aa-Zz, no space allowed
4. Also IP Door phone IP address could be seen on the unit's LED display (keypad models only).

Dial: P/[X] + 1 + Web Access Administrator password + #

7.2 Home screen

Home	
Model Name	IP-Doorphone
Model Number	IP-3940P
Software Version No.	2NNN
Software Version Date	2015-05-14
MAC Address	00:09:85:02:59:41
IP Address	192.168.1.184
Telephone Number	190
Status	Registering

Figure 7-2 The IP Door phone web-management application main screen

The left side navigation menu contains the following items:

Parameter	Description
Network	LAN Configuration parameters
	HTTPS Configuration
SIP	SIP Account settings
	SIP Advanced settings
	Audio – SIP audio codecs configuration
	Video – Video codecs configuration
	Global telephony calling parameters
Telephony	Day/Night extensions number settings
	Speed Dial extensions numbers settings and System accounts configuration
	Door(s) handling parameters configuration
Door Functions	Door Access Codes and Extension door opening code(s) settings
	LED Display messaging configuration
	Speaker and Microphone volume separate adjustment
System Parameters	NTP and Time: Clock settings
	Save system configuration file
Admin (Administration)	Restore system configuration file
	System Firmware update
	Set device to factory default configuration
	Restart: restart the unit
	Change the Administrator Web-Login credentials
	Syslog Server Settings
	Ping test to the unit
Save & Reboot	Save updated configuration and restart the unit

The Home page parameters table includes following information:

Parameter	Description
Model Name	IP Door Phone Product name
Model Number	IP Door Phone Product ID – the manufacturer identification code

Software Version No.	Installed firmware release identification code
Software Version Date	Firmware's release date
MAC Address	IP Door Phone MAC Address
IP Address	IP Door Phone IP address
Telephone Number	Associated SIP extension number
Status	Shows the associated SIP extension registration status in IP PBX

7.3 Network Parameters

7.3.1 Network Configuration parameters

Network->LAN

If you use HTTPS and change IP Address, you must activate it again from HTTPS page!

LAN

IP Address Acquire
Static

Static

IP Address
220.228.184.90

Subnet Mask
255.255.255.224

Default Gateway
220.228.184.65

DNS

DNS Server-1 (Primary)
168.95.1.1

DNS Server-2 (Secondary)
168.95.192.2

Apply
Cancel

Figure 7-3 Network -> LAN screen

Note:

- At least the 'DNS Server-1' parameter shall be specified in 'Static' IP address configuration mode.

Parameter	Description
IP Address Acquire	Available options: <ul style="list-style-type: none"> Static DHCP Static mode allows to specify Network parameters manually. DHCP - Network parameters will be received automatically from DHCP server.
Static	IP Address: Identifies the IP Door Phone on the TCP/IP network. IPv4 format shall be used: XXX.XXX.XXX.XXX Example: 192.168. 1.10
	Subnet Mask: Determines network subnet. IPv4 format shall be used: XXX.XXX.XXX.XXX Example: 255.255.255.0
	Default Gateway: An identifier for the default network gateway on a TCP/IP network. IPv4 format shall be used: XXX.XXX.XXX.XXX
DNS	DNS Server (Primary, Secondary): The local DNS servers IP address. IPv4 format shall be used: XXX.XXX.XXX.XXX Note: Strongly recommended to specify at least one DNS Server in Static Network configuration mode.

7.3.1 Network -> HTTPS activation

The HTTPS Activation parameter will requires to use the HTTPS secure protocol for the web management communication.

HTTPS provides authentication of the web-management server that one is communicating with, which protects against man-in-the-middle attacks. Additionally, it provides bidirectional encryption of communications between administrator's PC and IP Door Phone.

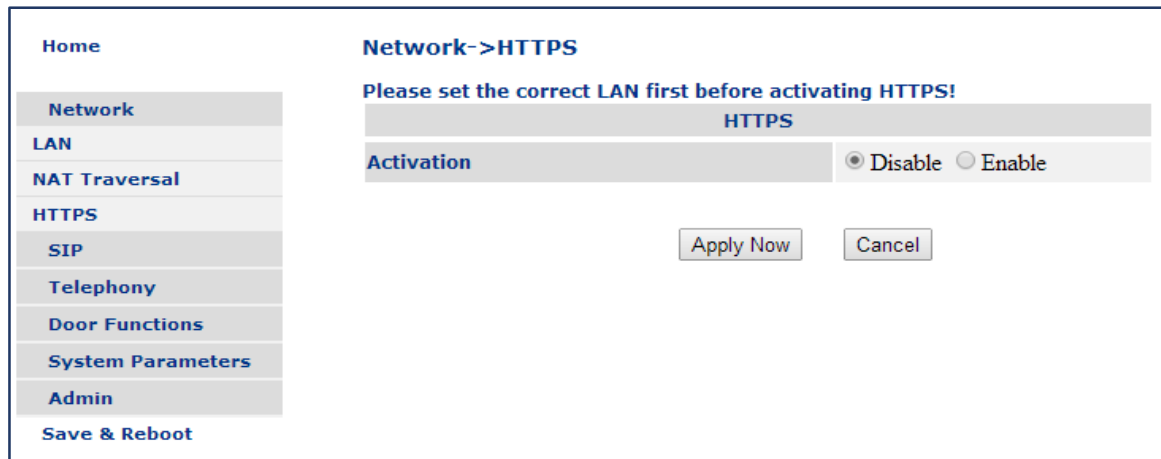


Figure 7-4 The HTTPS activation screen

Parameter	Description
Activation	Available options: <ul style="list-style-type: none"> Disable (default) Enable
'Apply Now' button	Applies updated configuration.

Note:

1. The unit LAN configuration shall be completed and saved before the HTTPS activation is set.
2. WEB access URL to Door phone management page can require '<https://>' prefix when HTTPS function activated

7.3.2 Network / NAT Traversal

These settings are relevant only if IP Door phone is a part of LAN and has internal (not public) IP address.

NAT Traversal function allows traffic to get to the specified destination when a device does not have a public IP address.

Network->NAT Traversal

NAT Traversal

Off ▼

STUN

STUN Server

STUN Port

3478 [3478],
(80~65535)

Apply

Cancel

Figure 7-5 NAT Traversal screen

Parameter	Description
NAT Traversal Activation	Available options: <ul style="list-style-type: none"> Off (default selection) On
STUN Server	The STUN server allows IP clients to find out their public address required for IP connection. TEXT Field allows to type the used STUN Server URL or IP address
STUN Port	Specifies the STUN server connection listening port number

7.3.3 Auto Provision

Auto provision screen allows to configure APS (Auto Provisioning Server) server IP address / DNS name and IP Door Phone configuration file name.

Network->Auto Provision Settings

Server Type	<input checked="" type="radio"/> HTTP <input type="radio"/> HTTPS
Server Name	<input type="text"/>
File Path	<input type="text"/>

Config File

Update File

Update Mode	<input checked="" type="radio"/> Disable <input type="radio"/> Restart <input type="radio"/> Periodic
Periodic Time	<input type="text" value="1"/> <input type="button" value="v"/> Days, when Update Mode = Periodic

Figure 7-6 Auto-provisioning screen

Parameter	Description
Server Type	Available options: <ul style="list-style-type: none"> • HTTP • HTTPS Specified the connection type with APS server
Server Name	APS Server DNS name or IP address
File Path	Directory path in APS server where configuration file stored.
Config File	'Download now' button initiates the Configuration file downloading procedure from the APS server
Update File	This section specifies the time period for automatic connection with APS server. Available options: <ul style="list-style-type: none"> - Disable – The Auto-Provisioning functionality disabled - Restart – Initiates Auto-Provisioning each time when unit restarted - Periodic - Initiates Auto-Provisioning in specific days interval. Available for configuration by using the 'Periodic Time' parameter. The default 'Periodic Time' parameter settings is 1 day. 'Update Now' button – initiates the Auto-provisioning procedure immediately

Note:

1. Allowed to use only original file provided by IP Door Phone manufacturer
2. Auto-provisioning procedure supports only files with specific **File Name**. Contact with Support Center in order to specify the IP394X File Names Convention.

7.4 SIP Parameters

7.4.1 SIP Account screen

SIP->SIP Account



SIP Account	
Doorphone Number	13784 
Authentication ID	<input type="text"/>
Password 
Domain Server	203.75.206.166
Proxy Server	<input type="text"/>

Figure 7-7 SIP account configuration screen

Parameter	Description
Username	The SIP account user name which shall be to be used for SIP extension identification
Auth User ID	The SIP account user name which shall be to be used for SIP extension registration in SIP proxy
Password	The SIP extension authorization password for registration in SIP proxy.
Domain Server	In most cases the parameter it is the same as the Proxy server IP address. In special cases, it is required to enter the local Domain IP address or DNS address.
Proxy Server	An identifier for the SIP Proxy server on a TCP/IP network. Legal entry: 0-9 digits only in Ipv4 format XXX.XXX.XXX.XXX. Alternatively allowed to specify Proxy Server by its DNS name.

7.4.2 SIP / Port Settings

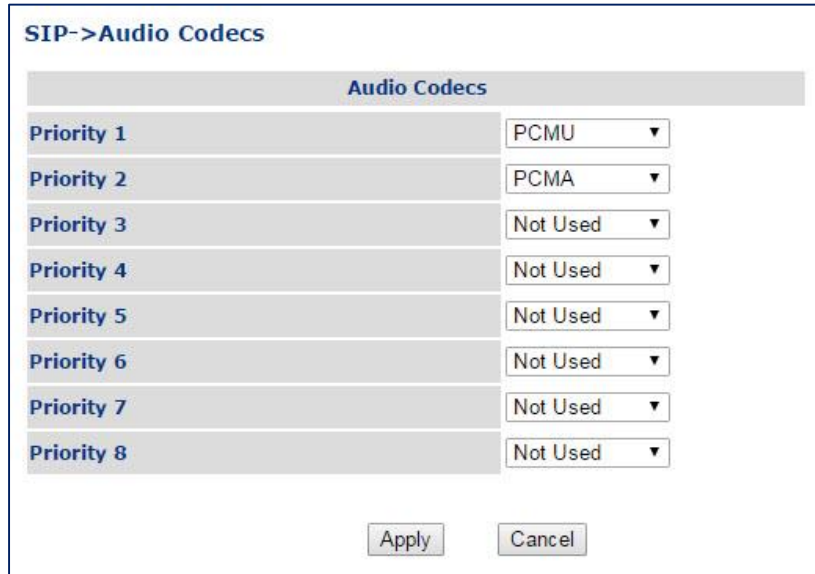
SIP->Port Settings

Port Settings	
SIP Local Port	5060 [5060], (1024~40000)
RTP Port Start	4000 [4000], (1024~40000)
RTP Port End	20000 [20000], (1024~40000)

Figure 7-8 SIP Port settings screen

Parameter	Description
SIP Local port	Port to be used by IP Door phone for SIP signaling.
RTP Port Start / RTP Port End	Set the initial port for the range of ports to be used for audio and video transfers. The default value is 4000 for RTP Port Start and 20000 for RTP Port End.

7.4.3 SIP Audio Codecs



Audio Codecs	
Priority 1	PCMU ▼
Priority 2	PCMA ▼
Priority 3	Not Used ▼
Priority 4	Not Used ▼
Priority 5	Not Used ▼
Priority 6	Not Used ▼
Priority 7	Not Used ▼
Priority 8	Not Used ▼

Apply Cancel

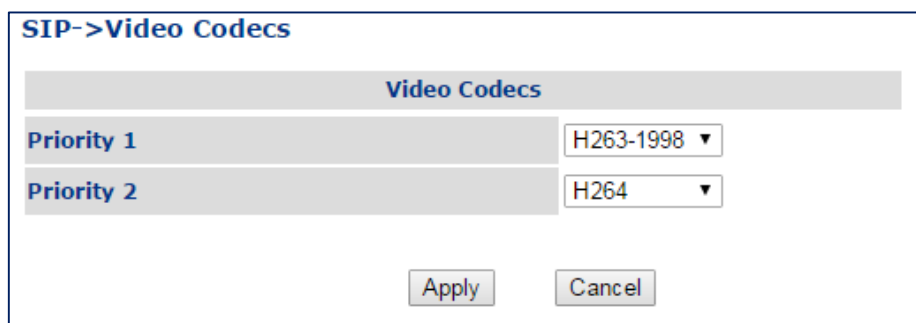
Figure 7-9 SIP Audio Codecs screen

This screen specifies Audio codecs which used in SIP protocol codec's priority.

Available following codecs:

- PCMU – G.711μ-low
- PCMA – G.711 a-low
- Speex 32 / 16 / 8 KHz
- GSM
- G.722
- G.729

7.4.4 SIP Video Codecs



Video Codecs	
Priority 1	H263-1998 ▼
Priority 2	H264 ▼

Apply Cancel

Figure 7-10 SIP Video Codecs screen

This screen specifies Video codecs used in SIP protocol for video stream transfer. Allowed to specify priority for each selected video codec

Available are following codecs:

- H263-1998 (H.263+)
- H264

7.4.5 SIP advanced settings

SIP->Advanced Settings

Advanced Settings	
Registration Expires	60 [60], (30~7200 secs)
Dial DTMF Mode	<input checked="" type="radio"/> RFC 2833 <input type="radio"/> SIP INFO <input type="radio"/> Inband DTMF
Media Encryption	<input checked="" type="radio"/> None <input type="radio"/> SRTP
Session Timer	<input type="radio"/> Disable <input checked="" type="radio"/> Enable

Figure 7-11 SIP Advanced settings

Parameter	Description
SIP Reg Expires	Set the minimum time for IP Door Phone SIP extension registration attempts.
DTMF Mode	<p>This option defines how DTMF signaling can be presented or recognized in SIP traffic. Note: Requires the opponent side configuration as well</p> <p>Available Options:</p> <ul style="list-style-type: none"> • RFC 2833 • SIP INFO (Default)
Media Encryption	<p>Enables / Disables the SIP traffic media encryption by using SRTP protocol capabilities.</p> <p>Note: Parameter not activated in default settings</p>
Session Timer	<p>Session Timer used follow by RFC 4028 in which either INVITE (outgoing call) or 200 OK (incoming call) header will have Session-Expires notification.</p> <p>The purpose is for checking if a call is still active or not.</p> <p>Available Options:</p> <ul style="list-style-type: none"> • Disable • Enable

7.5 Telephony

7.5.1 Telephony Parameters

Telephony->Parameters

Parameters	
Auto Answer	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Digit # as End of Dialing	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Interdigit Timeout	5 ▾ Seconds
Max. Conversation Timeout	60 ▾ Minutes
No Answer Timeout	20 ▾ Seconds
No Answer Forward Destination	546

Apply
Cancel

Figure 7-12 Telephony parameters screen

Parameter	Description
Auto Answer	<p>Available options:</p> <ul style="list-style-type: none"> Disable Enable <p>This parameter Enables / Disables the IP door phone auto pick up incoming calls</p>
Digit # as End of dialing	Specifies '#' sign typed on the IP Door phone keypad as end of dialing direct destination number
Inter-digit Timeout	Specifies the maximum delay time in seconds between two digits when entering a code or destination telephone number using IP Door keypad
Max. Conversation time out	Specifies the maximum allowed conversation time.
No Answer Timeout	Specifies the time interval for incoming call when IP Door phone not answered. The call will be forward to another destination when parameter expires.
No Answer Forward Destination	Specifies the 'No Answer' case call forward destination
'Apply' button	Screen requires using 'Apply' button for to update parameters in the unit

7.5.2 Day and Night settings

Note:

The Single button Door Phone allows Day and Night destination dialing. Speed Dial Destination dialing is relevant for Keypad Housing edition only.

Telephony->Day and Night Settings

Switch Mode

☒ Auto
 ☐ Manual

Manual Type

Day Time ▼

	Day Start	Day End
Sunday	08 ▼ : 30 ▼	17 ▼ : 30 ▼
Monday	08 ▼ : 30 ▼	17 ▼ : 30 ▼
Tuesday	08 ▼ : 30 ▼	17 ▼ : 30 ▼
Wednesday	08 ▼ : 30 ▼	17 ▼ : 30 ▼
Thursday	08 ▼ : 30 ▼	17 ▼ : 30 ▼
Friday	08 ▼ : 30 ▼	17 ▼ : 30 ▼
Saturday	08 ▼ : 30 ▼	17 ▼ : 30 ▼

Day Time Destination

546

Night Time Destination

546

Save

Cancel

Figure 7-13 Telephony Day & Night settings screen

Parameter	Description
Switch Mode	Available options: <ul style="list-style-type: none"> Auto Manual This parameter will switch the unit to Day or Night operational modes automatically or manually.
Manual Type	Specifies the operational mode Day or Night for the 'Manual' Switch Mode selection
Weekly Time profile table	Table specifies the daily time interval for each day of the week. Specified time interval specifies the 'Day' time interval
Day Time destination	Specifies the 'Ring' button destination number for the 'Day' operational mode. For Peer-to-Peer calls enter the destination in format: sip:XXX.XXX.XXX.XXX:5060 (where '5060' the actual SIP signaling port number)
Night Time destination	Specifies the 'Ring' button destination number for the 'Night' operational mode For Peer-to-Peer calls enter the destination in format: sip:XXX.XXX.XXX.XXX:5060

7.5.3 Speed Dial and System subscribers table

Note:

Speed Dial Destination dialing is relevant for Keypad Housing edition only. Single button Door Phone allows Day and Night destination dialing

The IP Door phone provides an option to create up to 99 System subscribers. Each system subscriber can be identified by its SPD number (**Speed Dialing Code**) and includes a set of destination telephony numbers where subscriber can be reached when appropriate SPD code dialed from the IP Door phone keypad.

Alternatively the System subscribers can be reached by using ▲▼ arrows buttons from the IP Door Phone keypad. Speed dial table purposed to configure the IP Door phone Speed dialing destinations / System Subscribers

Telephony->Speed Dial

Speed Dial No. ▲ ▼


SPD	Day Time Destination	Night Time Destination	No Answer Forward Destination	Description
<input type="text" value="01"/>	<input type="text" value="100"/> 	<input type="text" value="788"/>	<input type="text" value="0345679846"/>	<input type="text" value="Operator & Security"/>
<input type="text" value="02"/>	<input type="text" value="200"/>	<input type="text" value="788"/>	<input type="text"/>	<input type="text" value="Accounting Dep"/>
<input type="text" value="03"/>	<input type="text" value="201"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="Marcom Dep"/>
<input type="text" value="04"/>	<input type="text" value="202"/>	<input type="text" value="600"/>	<input type="text" value="089775634"/>	<input type="text" value="Logistic Dep"/>
<input type="text" value="05"/>	<input type="text" value="250"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="Production Manager"/>
<input type="text" value="06"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="07"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="08"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="09"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="10"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Figure 7-14 Speed dial and System subscribers table

Parameter	Description
Speed Dial No.	Parameter shows with 2 digits the Speed dial table number. Each table includes 10 records. Switching to required table is available by typing the table number in the text field and followed 'Select' button or by using the ▲▼ arrows buttons
SPD	The Speed dial destination code. This code can be dial from the IP Door Phone front panel keypad or selected by using the LED Display and arrows keys. Dialed SPD code and follows 'Ring' button initiates dialing to SPD destination number
Day Time Destination	The destination telephony number which associated with the SPD code and will be dialed in 'Day' operational mode For Peer-to-Peer calls enter the destination in format: sip:XXX.XXX.XXX.XXX:NNNN , where, XXX.XXX.XXX.XXX – destination peer IP address in IPv4 format NNNN – SIP Signaling port number, '5060' in default settings
Night Time Destination	The destination telephony number which associated with the SPD code and will be dialed in 'Night' operational mode

No Answer Forward Destination	Specifies telephony number where IP Door phone outgoing call will be forwarded in case if 'Day' or 'Night' destinations no answered on incoming call
Description	Short up to 30 characters SPD destination's description which will be indicated on the front panel LED Display by usage ▲ ▼ arrows buttons

7.6 Door Functions

7.6.1 Door Functions / Parameters

Door Functions->Parameters

Parameters	
Door Opening Time	3 ▼ Seconds
Door Opened Timeout	5 ▼ Seconds

Figure 7-15 Door Functions / Parameters screen

Parameter	Description
Door Opening time	Specifies the time interval in seconds during which the door lock remains open. Available selection options from 1 to 9 seconds.
Door Opened Timeout	Specifies allowed door open status time interval in seconds. This parameter is actual if the door status detectors in use in order to alarm the door open status. IP Door phone calls to Day / Night destination in case if specified time expired and door did not returns to its IDLE/Stand By mode

7.6.2 Door Access Codes

Door Functions->Door Access Codes

Access Codes No.	Relay 1	Relay 2
Door Opening Code 1	4321	9876
Door Opening Code 2		
Door Opening Code 3		
Door Opening Code 4		
Door Opening Code 5		
Door Opening Code 6		
Door Opening Code 7		
Door Opening Code 8		
Door Opening Code 9		

Door Opening from Extension Code 1	5	
Door Opening from Extension Code 2		

Door Opening Code Prefix

*

Apply

Cancel

Figure 7-16 Door Access Codes screen

IP Door phone support up to 9 Door access codes. The different Door access code can be specified separately for Door 1(Relay 1) and Door 2 (Relay 2)

Parameter	Description
Access Code 1~9	Specifies the Door opening code, which opens a door when typed on the IP Door phone keypad in 'Stand by' mode. Up to 9 digits. Legal entry: 0-9 digits only, no space allowed. Code can be specified separately for Door 1 and Door 2.
Access Code from Extension	Specifies the Door opening code, which opens a door remotely when dialed from destination number during conversation with the IP Door Phone. Up to 4 digits code allowed for assignment. Legal entry: 0-9 digits only, no space allowed. The code can be specified separately for each relay: Door 1 and Door 2.
Door Opening Code Prefix (Masking Door Opening code on LED monirtor)	<p>Used in order to mask actual dialed Door opening code and show '*****' 'stars' characters instead of. LED display will show 'STAR' characters follows after dialed assigned Door Opening Code Prefix</p> <p>To activate Code Masking:</p> <ul style="list-style-type: none"> Select 'Door Opening Code Prefix': * or # or None – to disable Click 'Apply' button Save & Reboot unit Dial Door opening prefix and follow the door opening code: for example:

If a Code prefix selected as '*' and door opening code is '4321', so need to dial *4321 in order to open a door.



LED Display with masked Door Opening code

7.6.3 Sensor

Door Functions->Sensor

Sensor Settings

Serial Doors Opening
☐ Disable
 ☒ Enable

Individual Settings

If Serial Doors Opening enabled, Sensor 1 Type is always Status Sensor!

Sensor 1 Type
☒ Status Sensor
 ☐ External Switch Button

Sensor 2 Type
☐ Status Sensor
 ☒ External Switch Button

Figure 7-17 Door Sensors and External Switch button configuration screen

Parameter	Description
Serial Doors Opening (See Chapter 8.3.1)	Configures the 'Serial Door opening'* application support. Default configuration – 'Disabled' <i>*Note: - Future Software Release.</i>
Sensor 1 & 2 type	Specifies type of equipment connected to PINs 'Sensor1' and 'Sensor2' see Figure 6-2 Available options: <ul style="list-style-type: none"> • Status Sensor • External Switch Buttons

The Door 'Status Sensor' provides an option to control the doors open/close status and activates alarm calls when door does not return to its IDLE mode during specific time interval

The 'External Switch Button' provides an option to open a door manually. See Figure 6-2

7.6.3.1 Sensor Door Status Control

Door Sensors control the door opening status and send alarm call to preconfigured Day / Night destination if the door opening time ('Door Opened Timeout' see Figure 7-15) expires and door does not return to its IDLE mode.

Note:

IP Door phone supports following Sensor types: Loop Control - Dry Contacts: Open / Close type

The used sensor shall provide the 'Normally Open' status in IP394X IDLE mode and 'Normally Close' status in Door Opened mode.

The 'Normally Open' sensor type means that sensor provides the loop disconnection status via its pins in default mode.

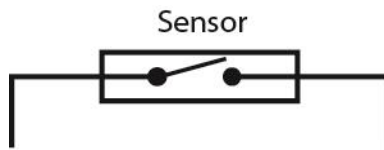


Figure 7-18 Normally Open Sensor

The 'Normally Close' sensor type means that sensor provides the short-connection status via its pins in default mode.

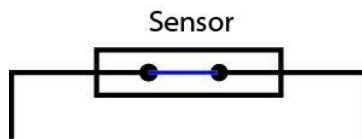


Figure 7-19 Normally Close Sensor

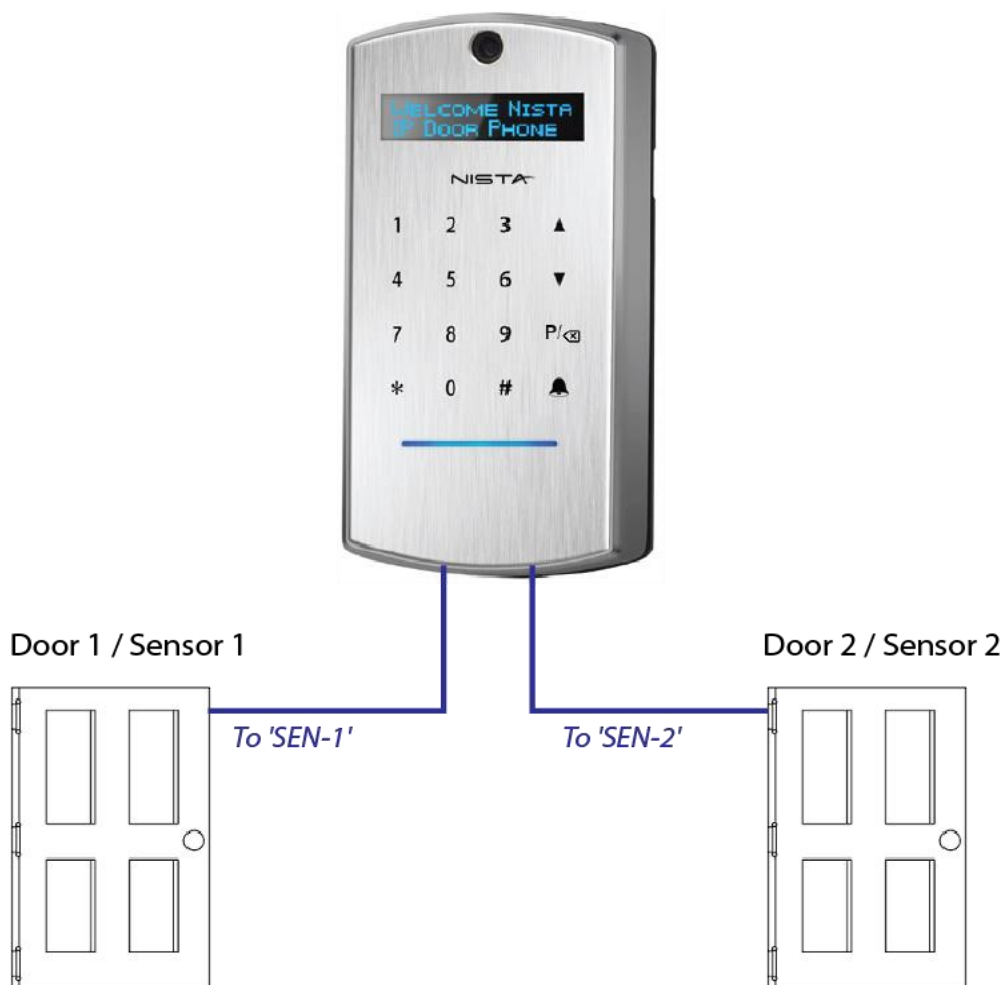


Figure 7-20 Door Sensors connection

The 'Door Opened Timeout' parameter controls the maximum allowed time when door can be opens. Parameter can be configured by using the WEB interface: Door Functions / Parameters screen (See Figure 7-15). Door Phone initiates alarm call to pre-configured Day or Night destination number if a 'Door Opened Timeout' parameter time interval expired but door did no returns to its IDLE mode.

To activate Door Status Sensors:

- Connect Door Status sensors to appropriate IP Door Phone connector pins ‘Sensor 1’ / ‘ Sensor 2’
 - Note: Be sure that Sensors are ‘Normally Open’ type in IDLE mode when door is closed.
- In IP Door phone WEB GUI interface:
 - Go to Door Functions / Sensor screen
 - In ‘Individual Settings’ region select ‘Status Sensor’ option for required Door 1 or Door 2
 - Go to Door Functions / Parameters and configure ‘Door Opened Timeout’
- Call to Destination from the IP Door Phone
- Open a door and leave door opened during time interval, which is longer than ‘Door Opened Timeout’ configured parameter value.
 - Note: Check the Sensor provides ‘Connection’ status via its pins when door is open.
- IP Door Phone calls to Day/Night destination

7.6.4 LED Display Settings

Door Functions->LCD

Idle LCD

Show Message	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Scrolling Time	<input type="text" value="3"/> Seconds
Language	<input type="text" value="English"/>

Message Line 1	<input type="text"/>
Message Line 2	<input type="text"/>
Message Line 3	<input type="text"/>
Message Line 4	<input type="text"/>
Message Line 5	<input type="text"/>
Message Line 6	<input type="text"/>
Message Line 7	<input type="text"/>
Message Line 8	<input type="text"/>

Figure 7-21 The LED Display configuration screen

The IP Door Phone front panel LED Display can be configured to indicate text messages for guests and users.

Parameter	Description
Show Message	Available options: <ul style="list-style-type: none"> • Enable • Disable Activate or de-activate the LED Display text messaging mode
Scrolling Time	Specifies a time interval in seconds with in the LED Display message will be indicated and then scrolled to a next one.
Language	Specifies the specific Language support
Message Line X (from 1 to 8)	The LED Display message text.

LED Display divides messages by pairs and shows & scrolls simultaneously 2 lines.

Note:

1. Feature required Save & Reboot action for activation

7.7 System Parameters

7.7.1 Volumes

Volumes screen allows to adjust the IP Door Phone's internal microphone and speaker volumes



System Parameters->Volumes

Volumes

Microphone Volume 08 ▼

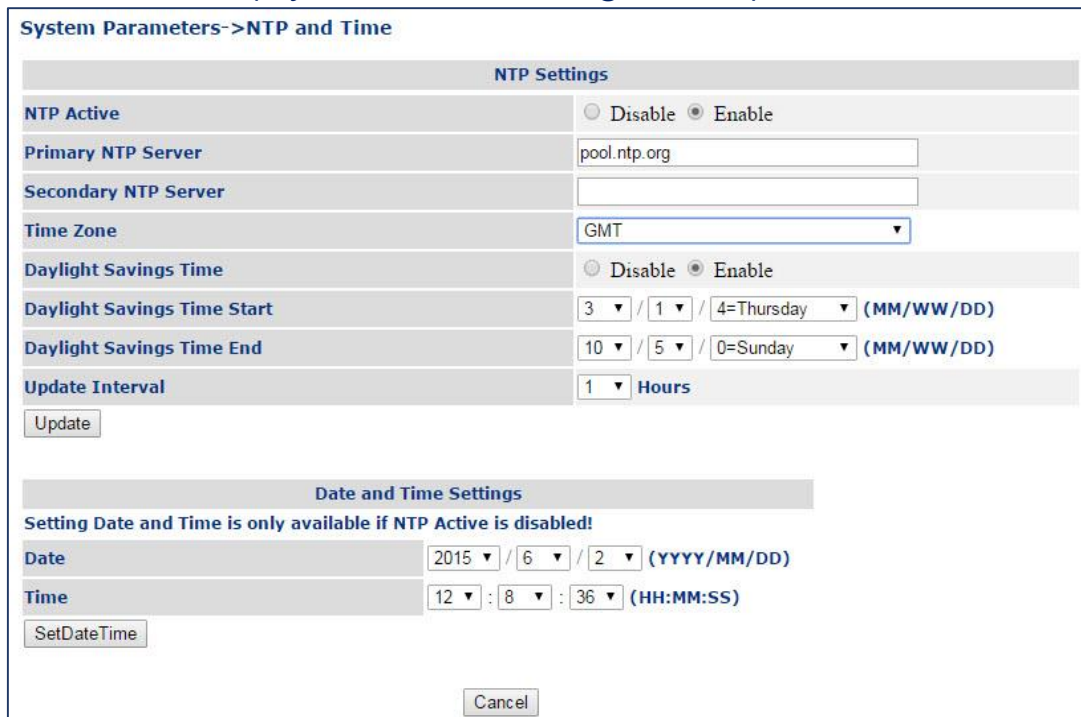
Speaker Volume 04 ▼

Apply Cancel

Figure 7-22 System Volume's settings screen

Parameter	Description
Microphone Volume	This parameter purposed to adjust the microphone volume
Speaker Volume	This parameter purposed to adjust the speaker volume
'Apply' button	Screen settings require to be applied in order to take effect.

7.7.2 NTP and Time (System time configuration)



System Parameters->NTP and Time

NTP Settings

NTP Active ☐ Disable ☒ Enable

Primary NTP Server pool.ntp.org

Secondary NTP Server

Time Zone GMT ▼

Daylight Savings Time ☐ Disable ☒ Enable

Daylight Savings Time Start 3 ▼ / 1 ▼ / 4=Thursday ▼ (MM/WW/DD)

Daylight Savings Time End 10 ▼ / 5 ▼ / 0=Sunday ▼ (MM/WW/DD)

Update Interval 1 ▼ Hours

Update

Date and Time Settings

Setting Date and Time is only available if NTP Active is disabled!

Date 2015 ▼ / 6 ▼ / 2 ▼ (YYYY/MM/DD)

Time 12 ▼ : 8 ▼ : 36 ▼ (HH:MM:SS)

SetDateTime

Cancel

Figure 7-23

Figure 7-24 System Real Time configuration screen

Parameter	Description
NTP Active	Available options <ul style="list-style-type: none"> Disable Enable

	This parameter enables / disables the internal real-time clock auto updating by using the NTP protocol
Primary / Secondary NTP server	The NTP server DNS name or IP address
Time Zone	The local time zone
Daylight Saving Time	Activates the 'Daylight Saving Time' (DST) support. Automatically corrects the system clock when enabled and configured
Daylight Saving Time Start / End	Specifies days to correct the Door Phone system clock in accordance with the local DST rules, where: MM – Month number, 1-January, 2-February etc WW – Week number in month: from 1 to 5 DD – Day of the week
Update interval	The connectivity session with NTP server time interval. Actual only for 'NTP Active' – 'Enable' selected status
Date and Time Settings	Set of parameters which are actual only for 'NTP Active' – 'Disable' selected status. Allows to set the Door Phone system clock manually.
Date	Actual Date settings fields: Year / Month / Day
Time	Actual Time settings fields: Hours / Minutes / Seconds
'Set Date and Time' button	This button applies ' Date and Time Settings ' table updates to the unit
'Apply' button	Screen settings require to be applied in order to take effect.

Note:

Feature requires Save & Reboot action to be accepted

7.7.3 Camera

System Parameters->Camera

Camera	
Brightness	0 ▾
Resolution	<input checked="" type="radio"/> Normal <input type="radio"/> High
Night Mode	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Apply
Cancel

'Camera' screen allows adjusting the internal video camera parameters:

Brightness	Allows to adjust the internal video camera 'Brightness'. Allows to set selected parameter in interval: -2 / +2 *.
Resolution	Allows to select the internal video camera resolution mode: Normal: 640 x 480 High: 720p

Note:

1. The destination SIP client shall support the selected video resolution mode
2. Feature configuration requires 'Save & Reboot' action in order be accepted.

7.8 Administration Parameters

7.8.1 Save Configuration File / IP Door Phone Backup

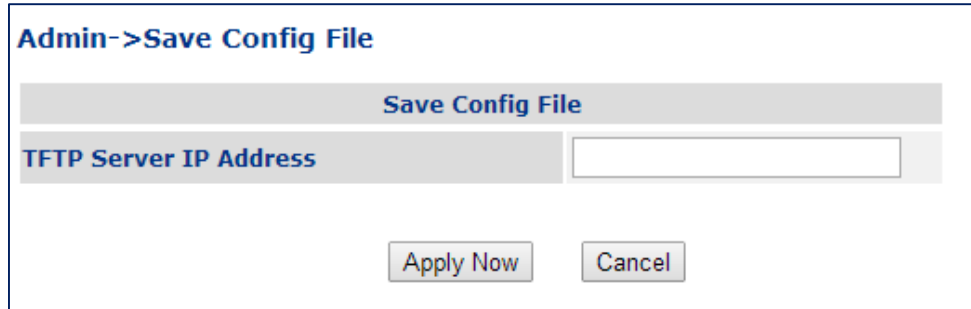


Figure 7-25 Save IP Door Phone Configuration File screen

This screen allows back up the IP Door configuration by using the TFTP protocol.

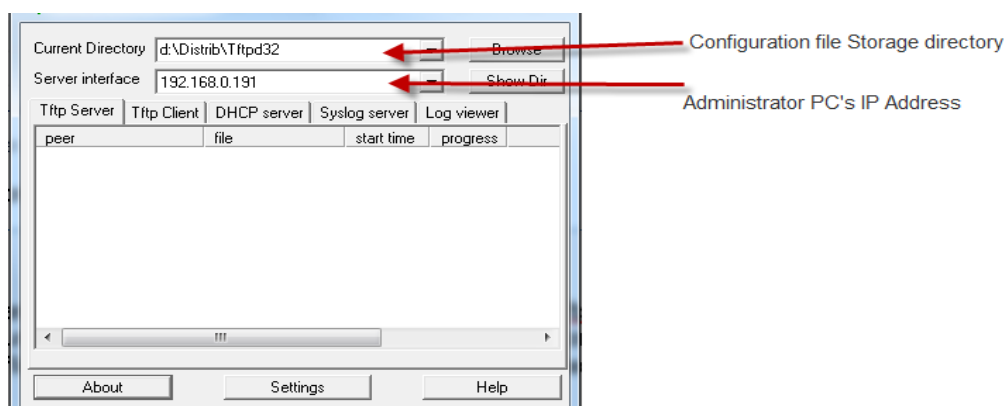
Note:

- 1.The TFTP server can be installed and activated by using the Third Part Company tftp software. For example: Tftpd32 application, which can be found on the following URL: <http://www.snapfiles.com/download/dITftpd32.html>)
2. The IP Door Phone configuration file name is fixed to '**Config.cfg**' and must be used for back up and restore operations

Parameter	Description
TFTP Server IP address	Specifies the TFTP server on a TCP/IP network, where configuration files will be stored.
'Apply Now' button	This button shall be used in order to initialize the functional operation.

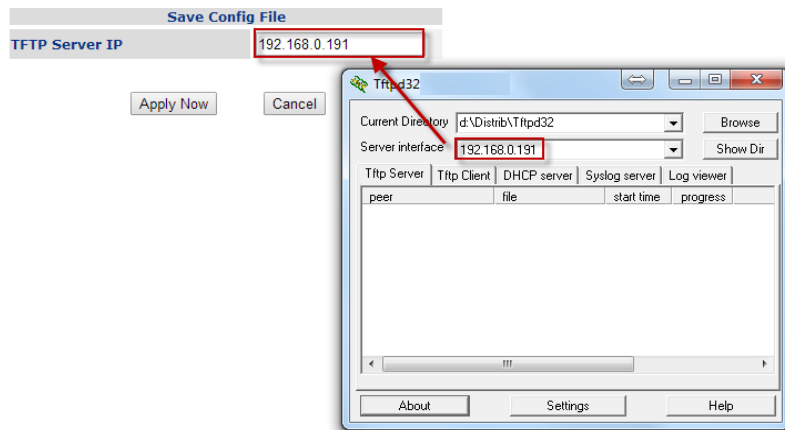
To save the IP Door Phone configuration by using '**tftpd32**' or "**tftpd64**" software (as example):

- Run tftpd32 software.

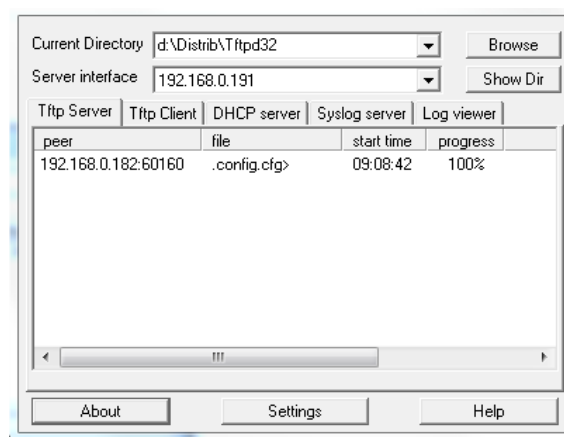


- Screen Opens where shown the Configuration file storage directory and your (Administrator's) PC's IP Address
- Go to IP Door Phone Web Management screen / Admin / Save Config File screen
- Type Administrator's PC's IP Address where tftpd32 software runs to 'TFTP Server IP' field

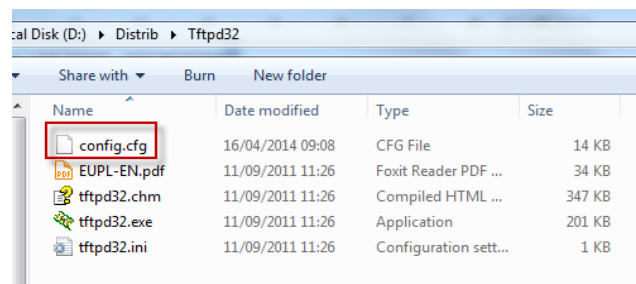
Admin->Save Config File



- Press 'Apply Now' button
- tftpd32 software screen indicates the Configuration file transfer status



- When operation is done the '**config.cfg**' file can be found in storage directory



7.8.2 Restore Configuration

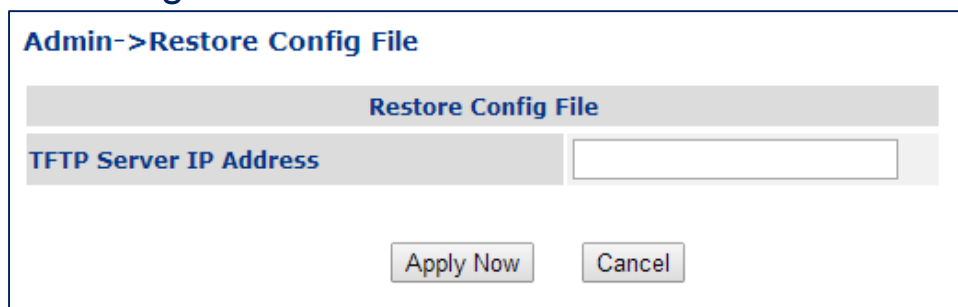


Figure 7-26 IP Door Phone Restore Configuration screen

Parameter	Description
TFTP Server IP address	Specifies the TFTP server on a TCP/IP network, where configuration files was previously stored.
'Apply Now' button	This button shall be used in order to initialize the functional operation.

To restore configuration file requires exactly the same procedures as in previous chapter.

7.8.3 Firmware Update

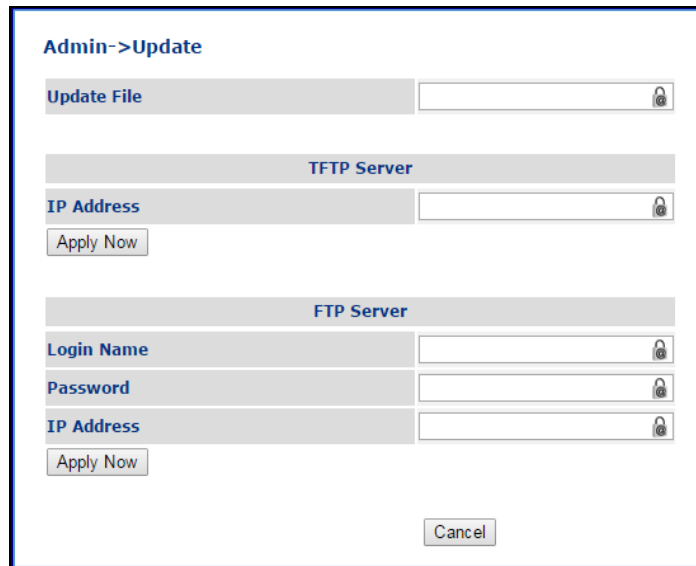


Figure 7-27 Update Firmware screen

Note:

The firmware updating procedure is available by using TFTP and FTP protocols. Only original IP Door phone's firmware can be used for the Firmware update procedure. Please contact with authorized local distributor in order to get the original firmware file.

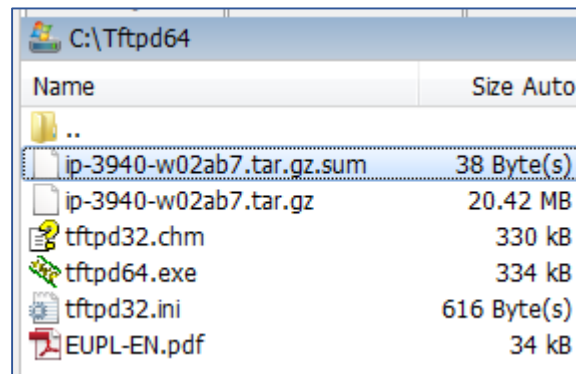
Parameter	Description
Update File	The IP394X Software file name including the file's extension suffix. For example: ip-394X-wNNN.tar.gz
TFTP Server	
IP Address	The IP Address of PC where runs TFTP server software
FTP Server	
Login Name	Specifies the FTP server account login name.
Password	Specifies the FTP server account password name.
IP Address	Specifies the FTP server IP address
Update file	The firmware file name.
'Apply Now' button	This button shall be used in order to initialize the functional operation.

Note:

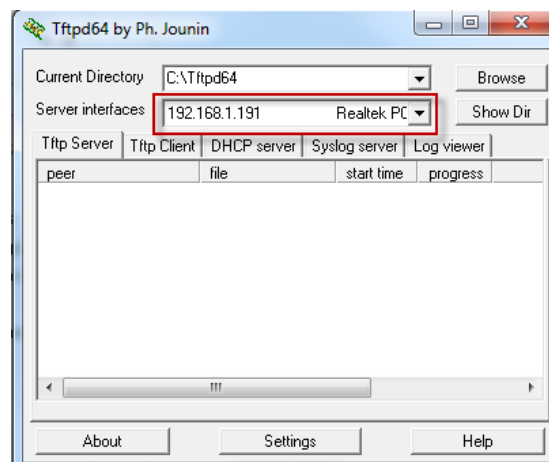
'TFTPD32' and 'TFTPD64' are three-side TFTP server software which mentioned in this document only as example and must be obtained separately by user

To update firmware by using the TFTP protocol (As example '**tftpd64**' **TFTP** server software utility can be used)

- Place IP394X firmware files: ***ip-394X-wXXabN.tar.gz*** and ***ip-394X-wXXabN.tar.gz.sum*** into TFTPD64 executive directory (where: XX – the firmware version ; N – the firmware edition number)



- Launch tftpd64 server utility and draw attention on 'Server Interface' field where must be shown IP address of PC where tftpd64 server runs



- Go to IP394X Web Management Admin/ Update screen and fill 'Update File' and TFTP Server / IP Address fields following by actual configuration where:
 - Update File – The IP394X Firmware file name; '***ip-394X-wXXXNN.tar.gz***' where XXXNN – firmware release number + edition number.
 - TFTP Server / IP Address – The IP address of PC where runs ***tftpd64*** server software

Admin->Update

Update File

TFTP Server

IP Address

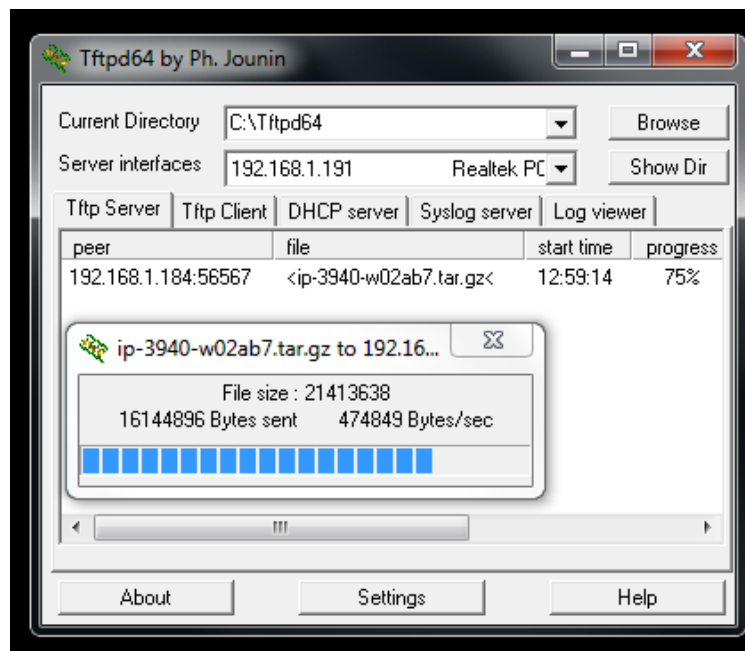
FTP Server

Login Name

Password

IP Address

- Click 'Apply Now' button in Web-Gui / TFTP Server region
- Wait ~ 20 seconds** until **tftpd64** application screen will start to show the firmware files updating status



- Note: The IP 394X front panel LED Display shows 'Rebooting' message during firmware updating procedure
- Wait until IP 394X will finish the firmware updating; restart the unit and returns to its IDLE mode

Note:

Do not disconnect the IP394X power during firmware updating procedure. Power failing on this stage destroys the unit.

7.8.4 Firmware local update

The IP Door Phone internal Firmware can be updated during WEB-Management session directly from the IP Door Phone management GUI.

To update Firmware directly from the Web-Management screen:

- Select 'Update Local' option from the 'Admin'- left navigation menu

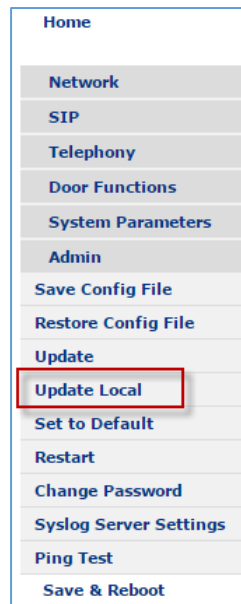


Figure 7-28 'Admin' navigation menu

- The Local Firmware Update screen appears
- Use 'Choose File' button in 'Update File' line in order to find and select the IP Door Phone firmware file. The IP394X Firmware file name; '**ip-394X-wXXXNN.tar.gz**' where XXXNN – firmware release number + edition number.
- Use 'Choose File' button in 'Checksum File' line in order to find and select the IP Door Phone firmware checksum file. The IP394X Firmware file name; '**ip-394X-wXXXNN.tar.gz.sum**' where XXXNN – firmware release number + edition number.
- Click 'Apply Now' button in order to initiate the Firmware update procedure

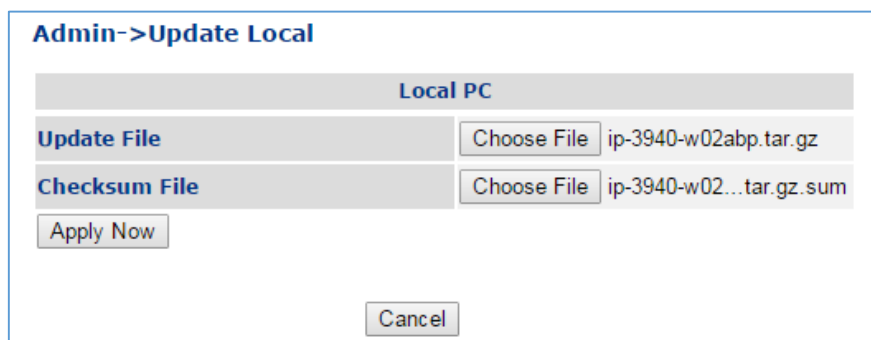


Figure 7-29 Firmware 'Update Local' screen

Note:

1. The Firmware updating procedure takes at least 2 minutes. Do not disconnect a power from the unit when Firmware updating procedure runs
2. WEB-Management screen shows message 'Please wait, Door-phone is still processing Prepare Update !'. Use your web-browser refreshing in order to refresh a screen and re-connect with the unit
3. LED Display shows 'Updating' message during Firmware updating procedure. Wait the normal functional LED messages in order to be sure that Firmware updating procedure finished

7.8.5 Set to Default

This menu option allows converting IP Door phone to its factory configuration



Figure 7-30 Set IP Door Phone to its factory default

Parameter	Description
'Apply Now' button	This button initializes the Reset to Factory default operation.

Note:

After click on 'Apply Now' button all previously configured parameters will be reset to factory values.

7.8.6 Restart / Cold Reset

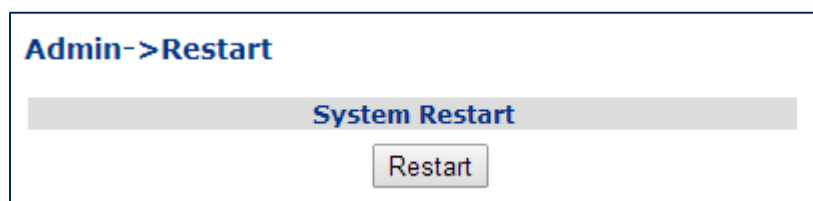


Figure 7-31 Cold Reset screen

This screen allows remote cold restart the IP Door Phone

Parameter	Description
'Restart' button	This button initializes the IP Door Phone Cold Reset.

7.8.7 Web-Management credentials

IP 394X provides different management levels for WEB-Management: Administrator and User

- 'Administrator' level has access to all IP394X configuration parameters
- 'User' level has limited access to IP394X configuration parameters.

Note:

1. The 'Administrator' management level web-login name is '**admin**'
2. The 'User' management level web-login name is '**user**'

The default web-login password for both levels is '**1234**'

7.8.7.1 Change WEB Administrator login credentials

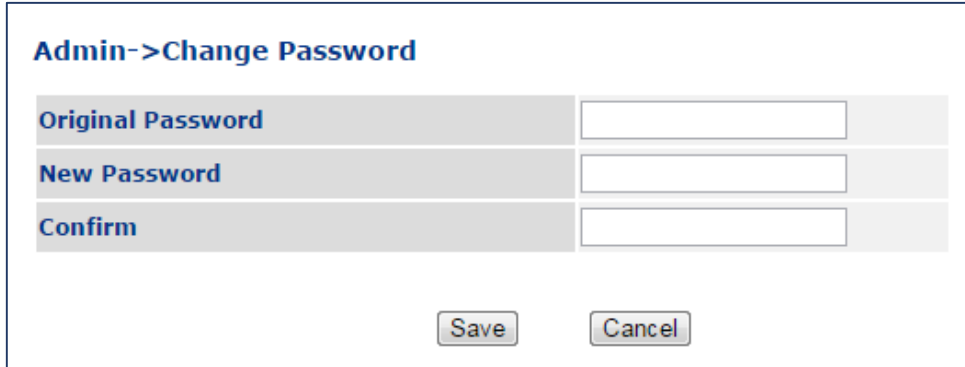


Figure 7-32 Change Web Administrator password screen

This screen allows changing the Web-Management Administrator login password.

To change a password:

- Type existing password in '**Original Password**' field
- Type new password in '**New Password**' field
- Confirm New Password by typing the New Password in '**Confirm**' field
- Click '**Save**' button to complete

Note:

1. The Web login password can be assigned with up to 15 characters: 0-9, Aa-Zz, no space allowed

7.8.7.2 Change WEB User login credentials

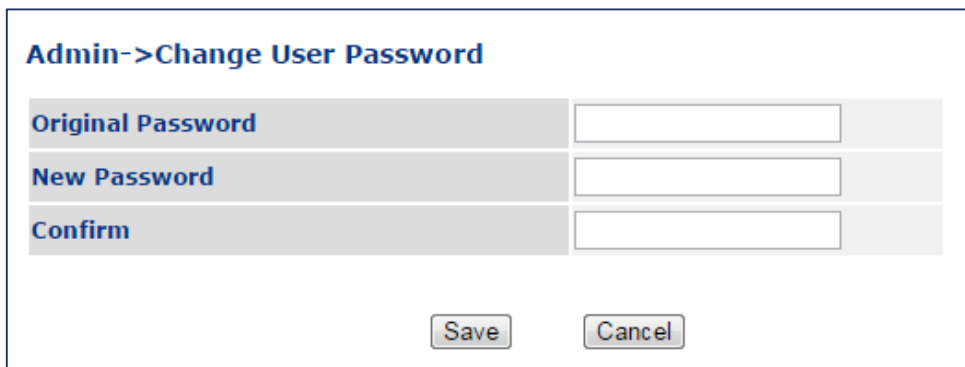


Figure 7-33 Change Web User password screen

This screen allows changing the Web-Management User login password.

To change a password:

- Type existing password in '**Original Password**' field
- Type new password in '**New Password**' field
- Confirm New Password by typing the New Password in '**Confirm**' field
- Click '**Save**' button to complete

7.8.8 Syslog server settings

This screen allows specifying the external 'Syslog' server IP address in order to stream the 'syslog' directly to server, where it can be stored.

System Admin->Syslog Server Settings

Syslog Server Settings	
Syslog Server IP Address	192.168.1.191
Log Level	3=info [4]
Day Name	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Year	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Month	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Day	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Time	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Micro Second	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Sender	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
New Line	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Carriage Return	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Space when no Mark (Debug)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Reserved (Debug)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Level Text	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Thread ID (Debug)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Mark when Thread Switched (Debug)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Indentation (Debug)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Console (Debug)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Save
Cancel

Figure 7-34 Syslog Server Settings screen

Note:

Save & Reboot action required in order to save screen configuration

Parameter	Description
Syslog Server IP Address	The external Syslog server IP address in IPv4 format. For example: 85.10.212.220 Note: Empty field means disabling Syslog data streaming
Log Level	Filter the Syslog level of the messages to be sent to server ERROR: shows all error messages, it may cause if Door Phone doesn't work properly or specific feature doesn't work properly. WARNING: shows all warning messages, it needs attention. INFO: shows all info messages, like pressed digits on the unit, Opening Door etc. DEBUG: shows all messages for debugging purpose. TRACE: shows all messages for debugging purpose and more detail than in 'DEBUG' mode

	DETAIL TRACE: shows all messages for debugging purpose and more detail than in 'TRACE' mode
Log Details	Specifies and enables the data which printed in Syslog event messages
	Day Name – Print the Day of the Week Name
	Year – Print the event Year
	Month – Print the event Month
	Day – Print the event Date
	Time – Print the event time
	Micro Second – Detailed the event microsecond
	Sender – print the sender details
	New Line – Print message in the new line
	Carriage return - Returns to beginning of the line. Usually enabling the 'New Line' option is enough, but if syslog server does not change to a new line, it must enable this setting as well.
	Space when no Mark (Debug) - For debugging purposes, add a space when 'Mark' when 'Thread Switched' option disabled.
	Reserved (Debug) – Not in use
	Level Text - It shows ERROR, WARN, INFO, DEBUG, TRACE, DETRC in the message, according to selected level of the message.
	Thread ID (Debug) - For debugging purposes, it shows thread id that generates the message.
	Mark when Thread Switched (Debug) - For debugging purpose, add a mark (!) when thread switched.
	Indentation (Debug) - For debugging purposes, add indentation (.) to show the deep of the sender.
	Console (Debug) - For debugging purpose, it also displays the message to a terminal (must be connected to IP-3940 RS-232).

See User's Operation Chapter 8.10 in order to get the **Door Opening report** to external syslog server.

7.8.9 Ping Test

Ping test allows checking IP connection from the IP Door phone with other IP destinations in the network.

To initiate the Ping test:

- Type the remote IP Door phone IP address or its DNS name in 'IP or Domain Name' and press 'Ping' button

Admin->Ping Test

Ping Test

IP or Domain Name

- After some seconds, Ping results will be shown on the screen.

Home

Network

SIP

Telephony

Door Functions

System Parameters

Admin

Save Config File

Restore Config File

Update

Set to Default

Restart

Browser Password Control

Syslog Server Settings

Ping Test

Save & Reboot

PING 192.168.1.114 56(84) bytes of data.

64 bytes from 192.168.1.114 : icmp_req=1 ttl=64 time=0.109 ms

64 bytes from 192.168.1.114 icmp_req=2 ttl=64 time=0.072 ms

64 bytes from 192.168.1.114 icmp_req=3 ttl=64 time=0.072 ms

64 bytes from 192.168.1.114 icmp_req=4 ttl=64 time=0.061 ms

64 bytes from 192.168.1.114 icmp_req=5 ttl=64 time=0.050 ms

64 bytes from 192.168.1.114 icmp_req=6 ttl=64 time=0.059 ms

64 bytes from 192.168.1.114 icmp_req=7 ttl=64 time=0.060 ms

64 bytes from 192.168.1.114 icmp_req=8 ttl=64 time=0.066 ms

64 bytes from 192.168.1.114 icmp_req=9 ttl=64 time=0.073 ms

64 bytes from 192.168.1.114 icmp_req=10 ttl=64 time=0.053 ms

ping statistics ---

10 packets transmitted, 10 received, 0% packet loss, time 8998ms

rtt min/avg/max/mdev = 0.050/0.067/0.109/0.017 ms

8 User Operations

Note:

1. The IP Visitor door phone provides limited functionality. The limitations depend on the unit programming.
2. Pressing the 'Ring' button a second time performs the "Call Cancellation" function.

8.1 Access by using the 'Door Access Code'

To open the door:

- Dial the known 'Door Access Code' on the keypad (See Chapter 7.6.2)
- Door shall be open and accompanied by 'Confirmation' tone

Note:

1. The default door access code is '**4321**'. Read Chapter 7.6.2 in order to configure the 'Door Access Code'
2. Door phone supports up to **9** digit Door Access Code
3. This specific operation is available in Keypad units only

- Door will be opened during the 'Door Opening Time' interval. (See Chapter 7.6.1)

Note:

1. The 'Door Opening Time' interval can be configured via appropriate WEB-GUI Screen (See also Chapter 7.6.7.6.1)
2. The default Door opening time is **3** seconds

8.2 Door opening by using the External Switch button

The Door phone supports an external switch button installation. The separate external button can be used for each door lock. This allows the door opening with a hardwired switch button. An external button should be connected to the Sensor-1 and Sensor-2 terminals. (See Figure 6-2)

External Button functionality shall be enabled in the Web-GUI 'Sensors' screen (See Chapter 7.6.3)

The door will be open, regardless of the Door Phone telephony connection status.

8.3 The Door Status Sensor. Serial Doors opening

The IP Door phone supports integration with the Normally Open (NO) or Normally Closed (NC) types external sensors, which can indicate the Door status: Closed or Open. Sensors shall be connected to 'Sensor1' or 'Sensor2'

pins of the wires connector (See Figure 6-2 and Chapter 7.6.3Sensor). Changing the default sensor status will indicate to the IP Door phone that the Door status is changing.

8.3.1 Serial Door Opening

The Serial door opening application allows the unit to open Door 2 after Door 1 with specific condition that Door 1 is already closed.

The following diagram shows the serial door opening functional:-

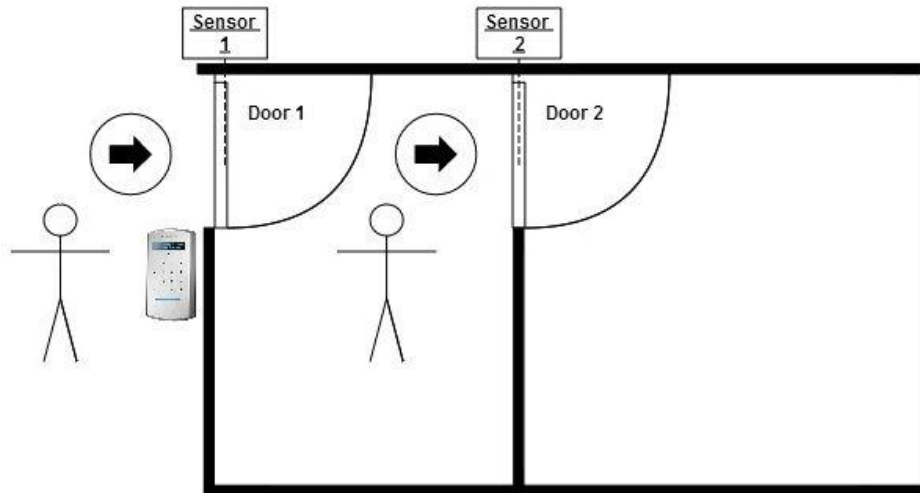


Figure 8-1 Serial Door opening feature


- Visitors press the 'Bell' button on the IP Door Phone in order to dial to operator.
- Operator opens the door by using the Door Opening code from their extension.
- Visitor enters into the building and waits till Door 1 will be closed. Sensor 1 follows and indicates to IP Door Phone the door 1 status.
- Door 2 will open automatically when Door 1 is closed.
- Sensor 2 shall indicate to IP Door Phone when Door 2 is closed and the IP Door phone returns to its Standby mode.

8.4 Call to the Day / Night Operator

The IP Door phone can operate in 'Day' and 'Night' scheduling modes. The Operator destination number can be specified for each mode separately via WEB Management interface (See Chapter 7.5.2). The number will be dialed

when pressing  button.

To dial the Operator:

- Press on the  button
- Door phone dials to a preconfigured destination number, depending on the Operational mode: Day or Night

Note:

1. Day and Night operational modes can be switched manually via Web-Management interface or automatically (See Chapter 7.5.2)
2. The default Operator destination numbers are empty and must be configured by using the Web-Management interface

8.4.1 Peer-to-Peer Calls

Peer-to-Peer mode calls means calling directly to destination IP address. IP Door Phone allows Peer-to-Peer calls when it's associated SIP extension Registered or Not Registered in SIP Proxy server (IP PBX)

To make a Peer-to-Peer call:

- Go to Telephony / Day and Night Settings or Telephony / Speed dial table
- Enter destination IP address in format [sip:XXX.XXX.XXX.XXX:NNNN](#) in Day/Night Time Destination fields as shown in following image, where:

Parameter	Description
XXX.XXX.XXX.XXX	The destination IP address
NNNN	SIP protocol signaling port, 5060 in default

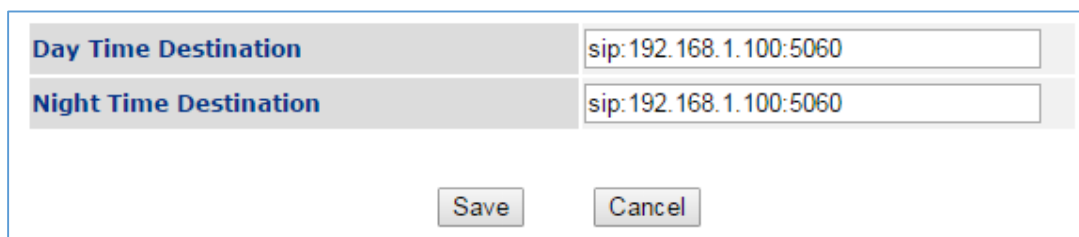




Figure 8-2 Peer-to-Peer Call Configuration

8.5 Direct Call to destination number

To dial directly to a destination number:

- Dial required destination number by using the keypad buttons. Use 'Backspace' button  to delete incorrect typed digit.
- Press  button when finished or wait until the 'Inter Digits Timeout' interval
- Door phone dials destination number

Note:

1. The maximum destination number length is **20** digits
2. Operation available for Keypad units only

8.6 Dialing by using Speed Dial Destinations

The IP Door Phone supports up to 99 Speed Dialing System subscribers destinations (See Chapter 7.5.3), where each system subscriber includes following telephony destinations:

- 'Day Time destination' – the number which will be dialed in the Day operational mode
- 'Night Time destination' – the number which will be dialed in the Night operational mode
- 'No Answer Forward Destination' - the number which will be dialed in case if a Day or Night mode did not answer during specific time interval
- 'Description' – short up to 30 characters System subscriber destination's description, which will be indicated on the front panel LED Display.

8.6.1 Speed dialing by using the SPD code

For speed dial System subscriber's destination number by using the Speed dialing SPD code:

- Type known **SPD** code on the IP Door phone keypad
- Press '**Ring**' button
- Door phone dials to pre-configured destination number



Figure 8-3 IP Door phone Keypad

8.6.1 Speed dialing by using the LED Display search

For speed dial System subscriber's destination number by using the destination LED Display search:

- Find required System subscriber by using ▲▼ arrows buttons
- Press '**Ring**' button to initiate a call
- Door phone dials to pre-configured destination number

8.7 Door opening from IP Extension by using the Extension's Door Opening Code

Called Destination can open the door for guests remotely by dialing the 'Extension's Door Opening Code' in conversation mode. (See Chapter 7.6.2 and Figure 7-16)

To open a door from an Extension:

- Call to destination as described in Chapters: 8.28.4, 8.5, 8.6
- Wait till destination answers.
- Destination extension can dial the 'Extension Door Opening code' during conversation in order to open a door.
- The call will be disconnected after door opening procedure is complete.

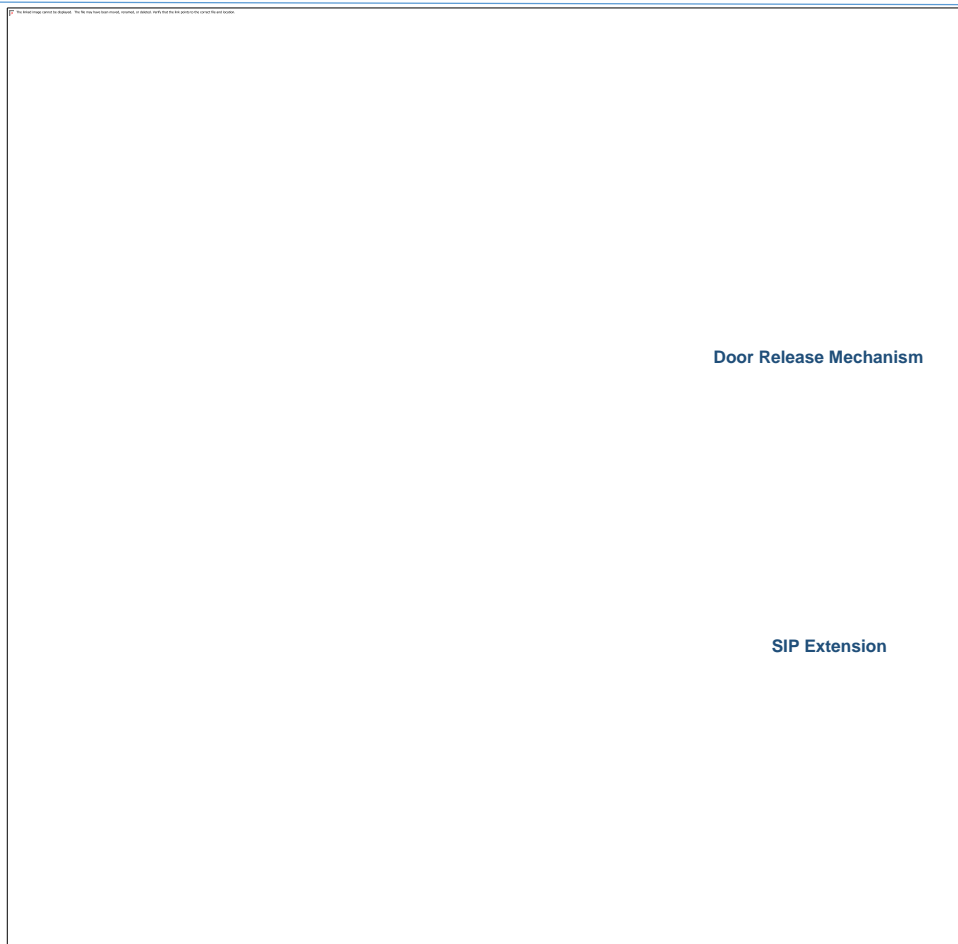


Figure 8-4 Door opening from remote Extension during conversation

Note:

1. The default Extension's Door opening code 1 for Relay number 1 is '5', the rest of codes shall be configured via Web-GUI / Door Access Codes screen (See Chapter 7.6.2)

8.8 Setting the maximum conversation time

The IP Door phone controls the conversation time duration. When preconfigured conversation time has expired, the Door phone will disconnect the call. (See Chapter 7.5.1)

Note:

1. The default Maximum conversation duration time is 1 minute
2. The Maximum conversation time interval can be configured via the Web-management interface 'Telephony Parameters ' screen (See Chapter 7.5.1)

8.9 Case Opening Alarm

Note:

Feature works automatically and doesn't requires specific configuration

LED Display shows message '*Destination is not set*' in case when unit housing is open during start up and Day/Night destination does not configured.

The IP Door phone initializes a call to Day / Night destination in case of housing opening.

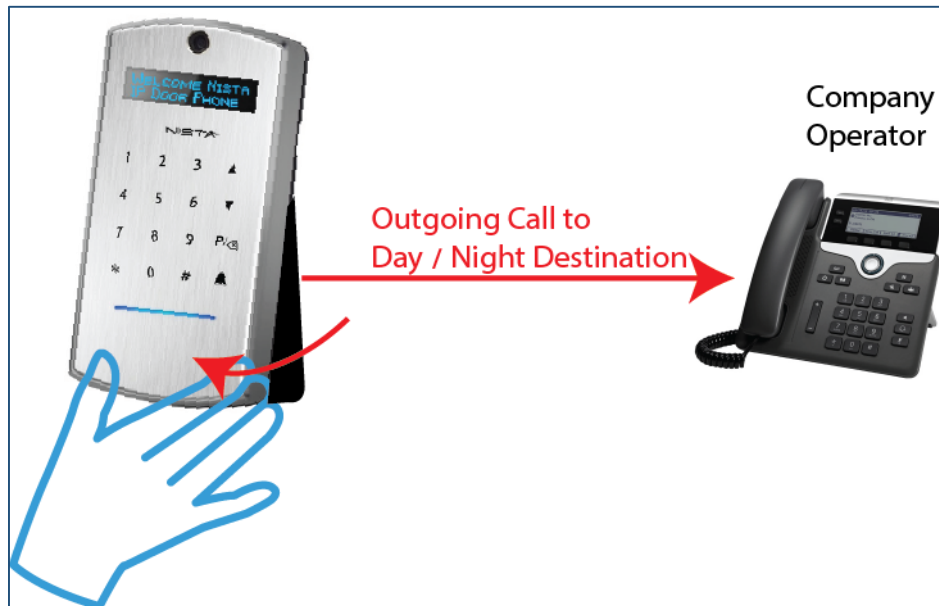


Figure 8-5 Case Opening Alarm Call

8.10 Door Opening report in the Syslog Server

The Syslog messages filtering functionality requires the IP Door phone and external Syslog server configuration.

Note:

The 'Syslog Watcher' Syslog server application shown as example in further in this document

To configure IP Door Phone to generate Door Opening syslog messages:

- Go to Admin / Syslog Server Settings and select Log Level '**3=Info**'

System Admin->Syslog Server Settings

Syslog Server Settings	
Syslog Server IP Address	192.168.1.191
Log Level	3=Info [4]
Day Name	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Year	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Month	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Day	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Time	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Micro Second	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Sender	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
New Line	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Carriage Return	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Space when no Mark (Debug)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Reserved (Debug)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Level Text	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Thread ID (Debug)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Mark when Thread Switched (Debug)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Indentation (Debug)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Console (Debug)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Save

Cancel

Figure 8-6 Syslog Server Settings screen

- Type PC where runs Syslog server application in 'Syslog Server IP Address' field
- The rest of selection are default and shown on **Error! Reference source not found.**
- Click 'Save' button and follow Save& Reboot option from Navigation menu
- Go to 'Syslog watcher' syslog server and Click 'Filter' button in top Menu

Syslog Watcher - Standalone Mode

Collect Stop Status Reload Filter Find Search Import Export Delete Reports Storage

Show Any Severity from 192.168.1.184 last 1000 messages Update every 3 seconds Update

Quick Filter

Quick filter allows you to easily filter the displayed messages.

☒ Apply
 ☐ No Filter

☐ Negate (apply logical NOT)
 ☐ Severity
 ☐ Facility
 ☐ Source
 ☐ Origin
 ☐ Tag
 ☒ Message
 ☐ Case
 ☐ Whole

Search Results (0) Sources (1) Server Log Backups

Message

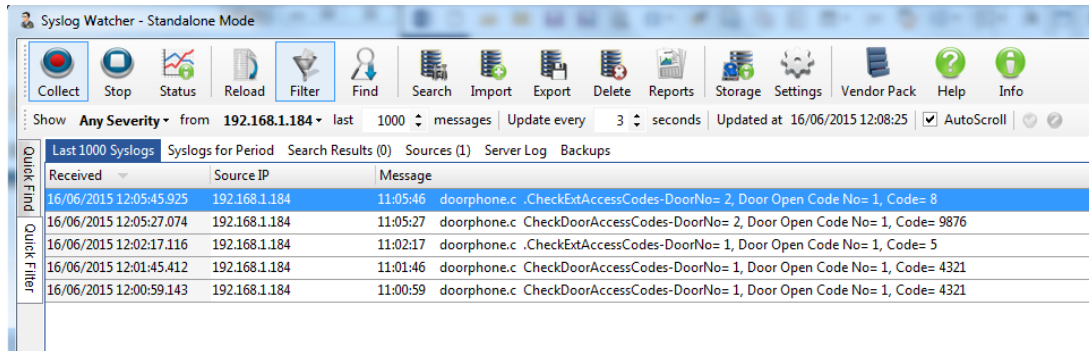
11:38:04 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:38:04 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:37:16 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:37:16 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:36:28 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:36:28 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:35:39 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:35:39 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:34:51 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:34:51 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:34:03 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:34:03 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:33:15 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:33:15 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:32:27 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:32:27 pjsua_acc.csip:190@192.168.1.191: registration success, sta
 11:31:38 pjsua_app.con_reg_state2-acc_id= 2, status= 0, code= 200
 11:31:38 pjsua_acc.csip:190@192.168.1.191: registration success, sta

Figure 8-7 Syslog server Filter window

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- Check 'Message' option and type in Message filtering box: " Door Open Code"
- Click 'Apply' button

From this moment only filtered messages which includes door opening codes will be printed in Syslog server



The screenshot shows the Syslog Watcher interface with the 'Filter' button highlighted. The table below displays the filtered messages.

Received	Source IP	Message
16/06/2015 12:05:45.925	192.168.1.184	11:05:46 doorphone.c .CheckExtAccessCodes-DoorNo= 2, Door Open Code No= 1, Code= 8
16/06/2015 12:05:27.074	192.168.1.184	11:05:27 doorphone.c CheckDoorAccessCodes-DoorNo= 2, Door Open Code No= 1, Code= 9876
16/06/2015 12:02:17.116	192.168.1.184	11:02:17 doorphone.c .CheckExtAccessCodes-DoorNo= 1, Door Open Code No= 1, Code= 5
16/06/2015 12:01:45.412	192.168.1.184	11:01:46 doorphone.c CheckDoorAccessCodes-DoorNo= 1, Door Open Code No= 1, Code= 4321
16/06/2015 12:00:59.143	192.168.1.184	11:00:59 doorphone.c CheckDoorAccessCodes-DoorNo= 1, Door Open Code No= 1, Code= 4321

Figure 8-8 Syslog server screen with filtered messages

9 Technical specification

Power supply	5V DC; 1.5A or Power Over Ethernet IEEE 802.3af compliant
Communication interface	Ethernet for voice; and for programming
DC Leakage	<10 μ A
Imbalance ratio	300-3400Hz > 46dB
Return loss	300-3400Hz > 18dB
Relay's switching current	30VDC - 2A Max
VoIP protocol supported	SIP; RTP; RTCP
Supported Audio codecs	G.711 PCM (μ /A-Law) at 64 kbps; Speex 32/16/8 KHz; GSM; G722
Supported Video codecs	H.264; H.263-1998
Media Encryption	SRTP
Echo canceller	G.168-2002 Compliant with programmable echo tail of up to 128 msec. Full duplex, acoustic EC
Quality Enhancement	Comfort Noise generation (CHG) Packet Loss Concealment (PLC) Adaptive Jitter Buffer(up to 300 msec)
Echo canceller length	Up to 64 msec
IP media features	Automatic Gain Control
Dimensions	Indoor Unit:182 L x 94 W x 36 H (mm) (with rubber pad) Indoor Unit Mini Housing: 130 L x 65.5 W x 33 H (mm) (with rubber pad) Outdoor Unit:182 L x 94 W x 36 H (mm)
Weight	Indoor Unit :550g (net) Indoor Unit Mini Housing: 282.4g (net) Outdoor Unit:.....700g (net)
Operating Temperature	Outdoor: -20°C to +50°C/4°F to 122°F Indoor: 0°C to +35°C/32°F to 95°F